

To: Matt Francis (m.francis@erllc.com)[m.francis@erllc.com]
From: Way, Steven
Sent: Tue 7/7/2015 4:52:51 PM
Subject: FW: Red and Bonita - Extended Pond Capacity and Liner Calculations
RnB Pond and Fabric Calcs - Revised for 500 GPM.docx
RnB - Pond Expansion Layout.pdf

Steven Way

Federal On-Scene Coordinator

Emergency Response Unit

US EPA - Region 8

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From: Petri, Elliott [mailto:Elliott.Petri@WestonSolutions.com]
Sent: Wednesday, July 01, 2015 11:04 AM
To: Way, Steven
Cc: Christner, Jan
Subject: RE: Red and Bonita - Extended Pond Capacity and Liner Calculations

Hi Steve,

I have revised the pond calculations to account for the higher flow we found on site this year (500 GPM), I have also attached a draft drawing of the pond expansion per our discussions on site. With the increased flow the overall retention time for the expanded pond dropped from 5.5 hours to 3.3 hours. Naturally the longer the water is in the ponds the better the quality will be, but with the limited space to the north the proposed option in the word document is still considered the best option. Please review the attached document and figure and send me any edits or comments you have on either.

Thanks,
Elliott

Elliott Petri, PE

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From: Petri, Elliott

Sent: Tuesday, April 14, 2015 4:34 PM

To: Way, Steven (way.steven@epa.gov)

Cc: Christner, Jan

Subject: Red and Bonita - Extended Pond Capacity and Liner Calculations

Hi Steve,

Please find attached a word document outlining the capacity options for the expanded pond and an estimate for the liner required for the expanded pond. The current pond dimensions were estimated from google earth imagery to match the final product as built in the field. Also, if needed I can provide you with calculations for lining the current pond with higher berms or extending the pond without adding a third internal berm.

Please let me know if you have any questions or need additional information on the treatment pond options.

Thank You,

Elliott

Elliott Petri, PE

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